

NIST Cloud Computing Forum and Workshop VIII

Recommendations for Cloud Computing adoption: where are we?

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NIST Cloud Computing Forum and Workshop VIII

Cloud Standards Coordination





Cloud Standards Coordination

(phase 1)



Cloud Standards Coordination

Final Report

November 2013

VERSION 1.0

NO Jungle of Standards Enough
Standards
to start with

Despite new standards coming, some gaps identified

Foster collaboration to ensure no fragmentation happens

http://csc.etsi.org

Cloud Standards Coordination phase 2

- Builds on the findings of Cloud Standards Coordination in 2013
 - CSC (phase 1) launched by European Commission & ETSI
 - Focus on Standards Landscaping (with a Service Providers view)
- Focusing on the user needs and viewpoint
 - Testing them against users' feedback
 - Digging further into users' needs—specify/qualify concerns
- Addressing the main issues outlined at the end of CSC phase 1
 - Identification of users priorities: a survey
 - Interoperability, Certification, Security
 - Standards and Open Source
 - Cloud Computing standardization maturity assessment (take 2)

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A users' view

With some focus on standards





Identification of Cloud Computing User Needs

- Objectives
 - To collect and analyze (via a survey) the feedback from the users
 - To understand the needs of the CC users community
 - To identify their highest priority (existing or new) use cases
 - To ensure that their priorities are taken into account in standardization.
 - To further refine the Phase 1 report conclusions.
- User Survey
 - On-line on March 30th: http://csc.etsi.org/phase2/survey.html
 - Will remain open until September 18th
- Output: an ETSI Special Report
 - Report v1.0.0: June 24, 2015
 - Public review: until September 18, 2015
 - Final Report v2.0.0: October 15, 2015

Survey Results - Question 5

Size of your organization?

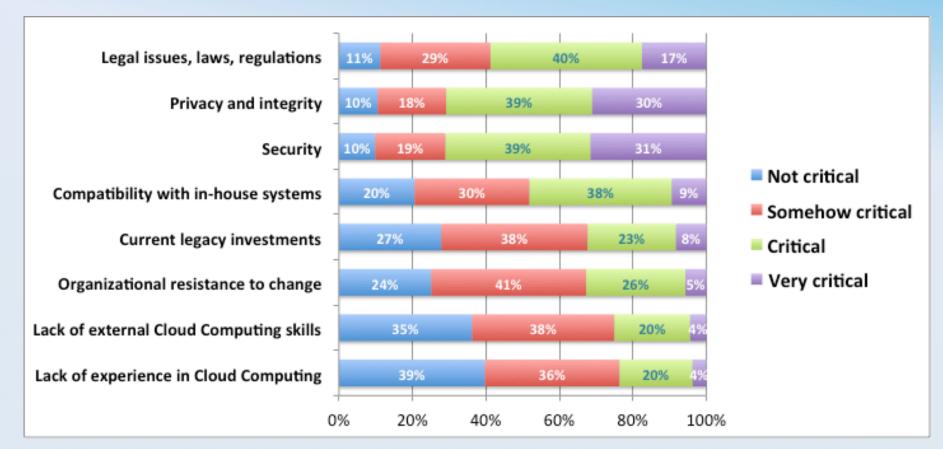


Trends and patterns

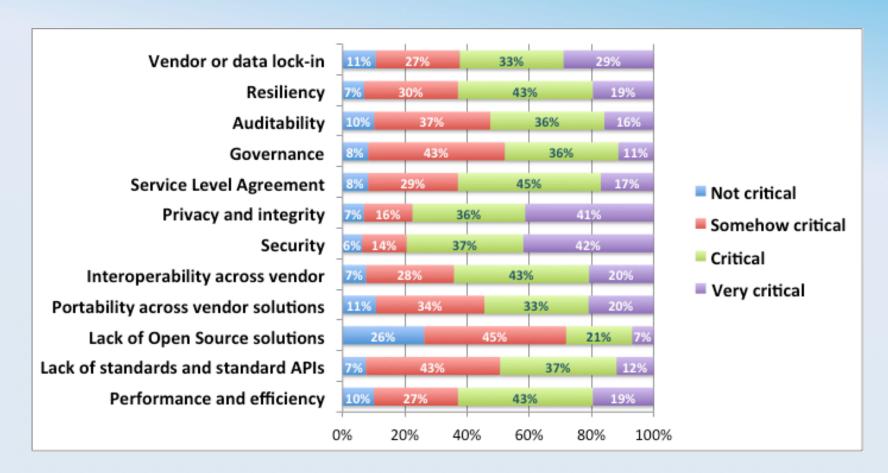
- Security and Data Privacy are seen as major concerns
 - Not a new finding but a clear indication on perceived challenges ahead
 - for security standards and Cloud certification in particular.
- Interoperability is also ranked high
 - Most likely linked to vendor lock-in and the lack of portability standards for cross-Cloud scenarios.
- Transition to Cloud Computing
 - High perception that it should be carefully planned and organized
 - in particular regarding data (classification, storage, etc.), processes and security
- Role of standards
 - It is seen as important and there is already a high level of awareness
 - to a smaller extent even in terms of knowledge on the existing set of standards.
 - Benefit from Cloud standards is seen higher than Open Source

Survey Results - Question 9

Maturity of your organization: how critical are the following challenges?

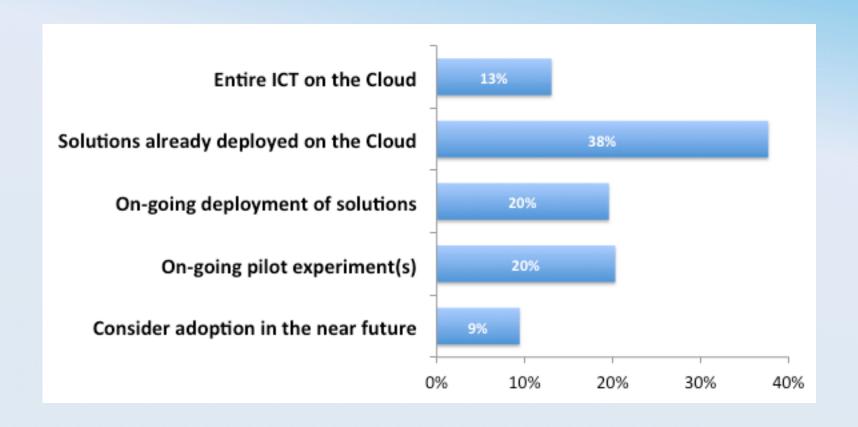


Maturity of Cloud Computing: how critical are the following issues for your organization?



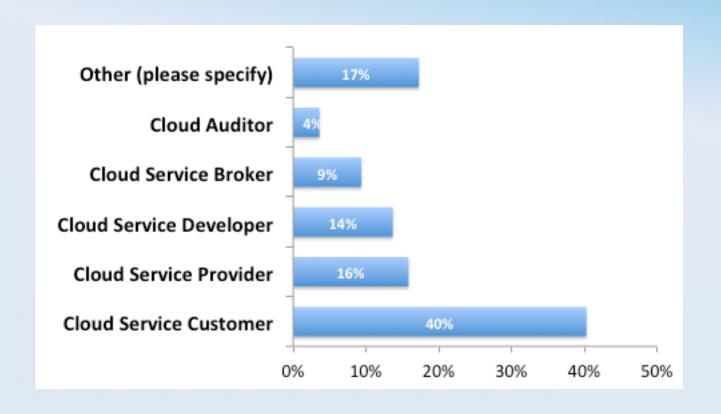
Survey Results - Question 15

Stage of Cloud Computing Adoption

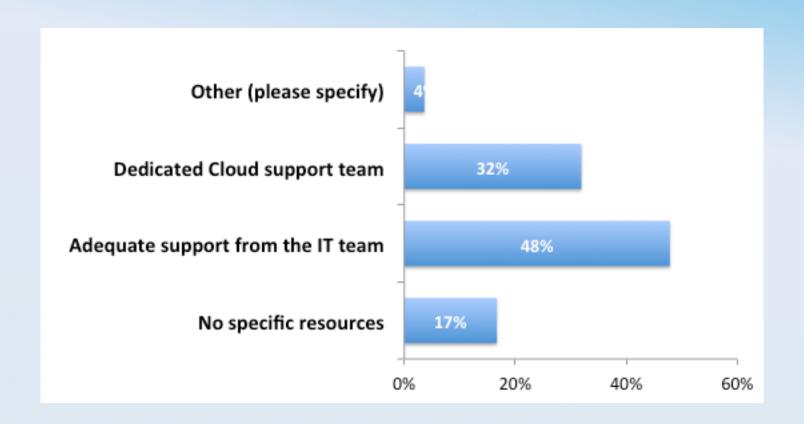


Survey Results - Question 16

Role of your organization in Cloud Computing

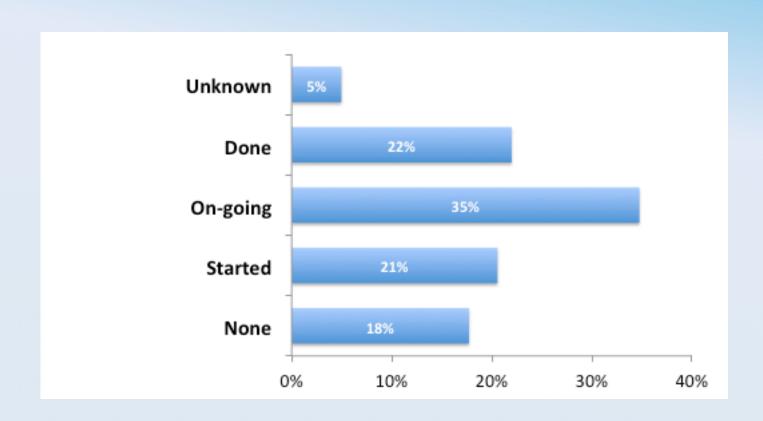


Level of your resources and support to Cloud Computing

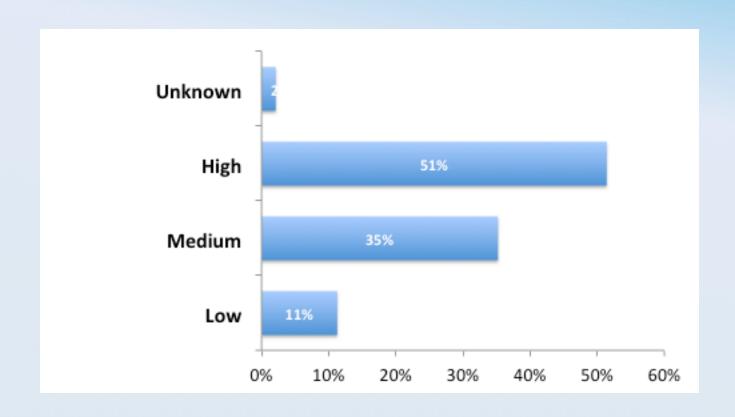


Survey Results - Question 19

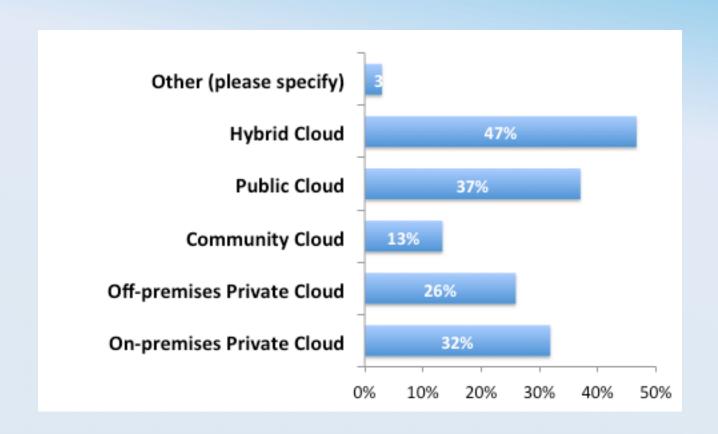
Data Classification in your organization



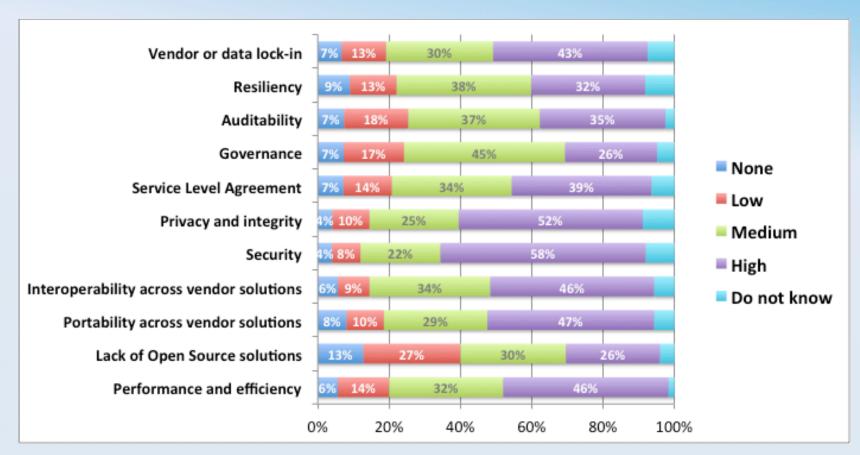
Data Security in your organization



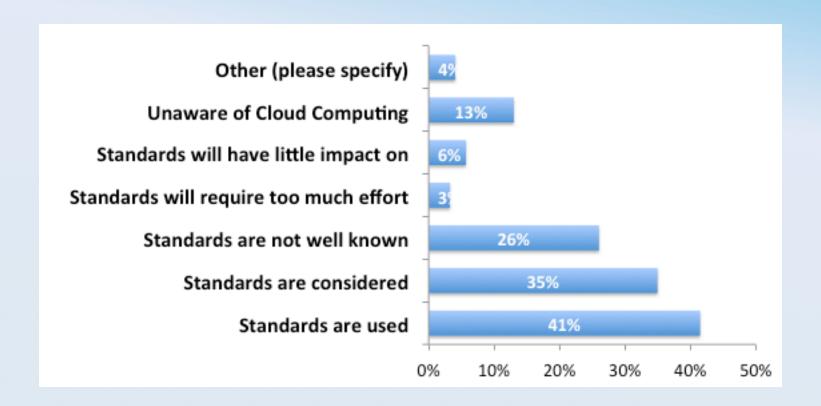
Which Cloud deployment model seems best fit to your needs?



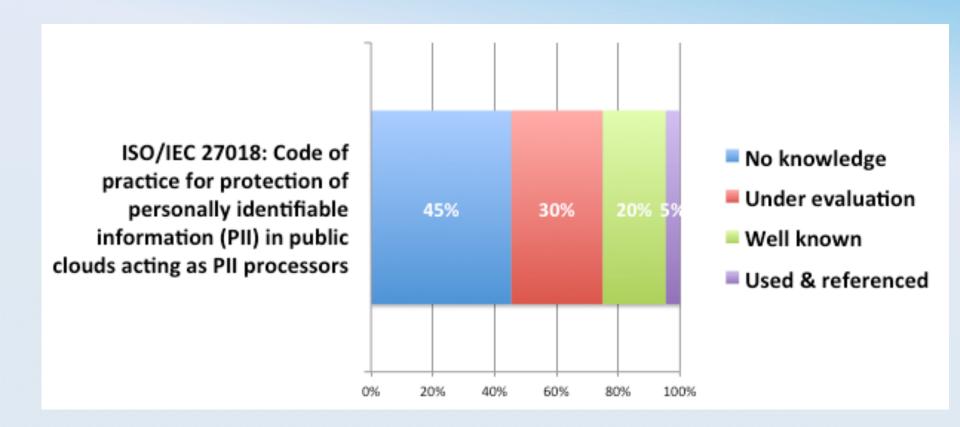
Which impact can Cloud Computing Standards have on your organization's concerns?



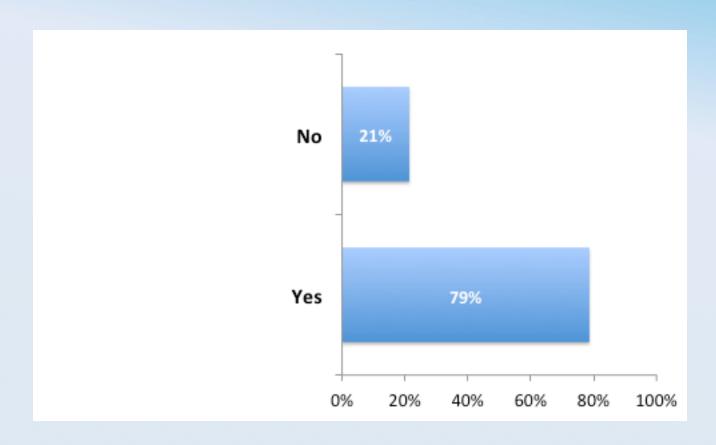
To which degree are Cloud Computing Standards considered or used in your organization?



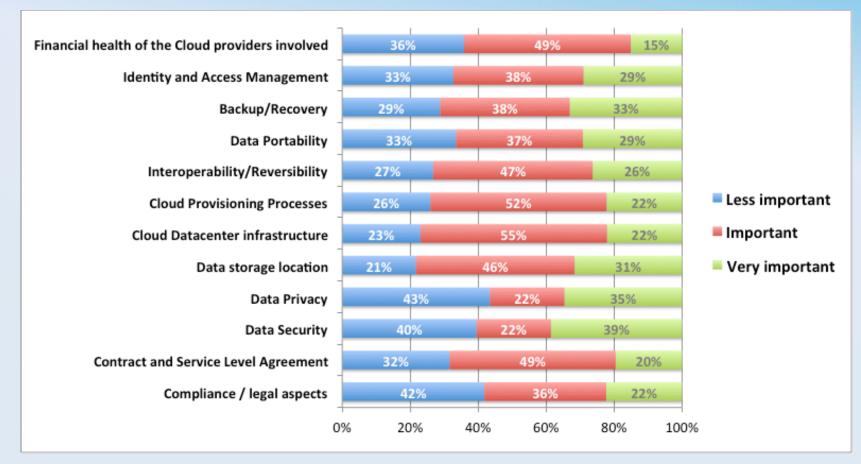
Your organization's adoption and use of CC standards: Data protection



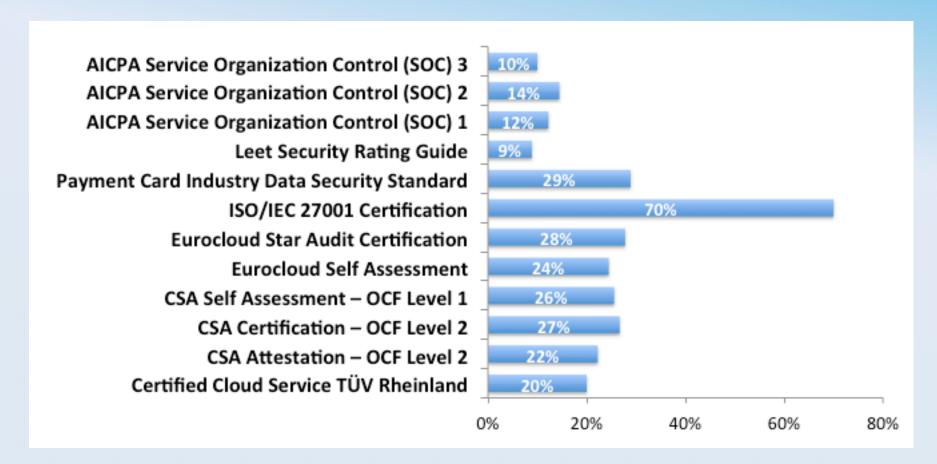
Would you consider Cloud Certification as a possibility to improve confidence in Cloud?



Please rank the following Cloud Certification areas according their importance



Which of the following Cloud Certification Schemes listed in CCSL are you are aware of?





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Some conclusions

General Findings

- Most positive factors
 - Reduction of CAPEX, improved business agility, faster time to market
- Main challenges
 - Compatibility with in-house systems, security, privacy/integrity
- Adoption and scope
 - A majority of the respondents (58%) have already started to adopt CC
 - None (0%) of the respondents are not planning to adopt CC
- Cloud Deployment Models and Cloud Service Categories
 - Private Cloud dominates followed by Hybrid Cloud and Public Cloud
- Standards top priorities
 - Interoperability, security, service level agreements, portability and APIs
- Cloud computing certification standards
 - Certification: a positive way to increase confidence in CS Providers

On the road for adoption

- Users
 - Different: expectations, issues, resources, skills, perception
 - Common: must-have, must-adapt, must-prepare, must-adopt
- Adoption
 - Most organizations (incl. SMEs) have started the adaptation work
 - Security and Privacy & Data integrity are recurrent concerns
 - What to do with the legacy IT?
- Standards
 - Much support expected from standards & certification
 - More awareness & marketing of existing standards needed
 - More coverage: SLA, Security, Privacy & Integrity, Interop
 - Well, well, looks a bit like status at the end of 2013
- More to come on the survey
 - Public consultation and Review Workshop, October 1-2 2015, Brussels
 - Final CSC phase 2 Presentation Workshop, December 2nd 2015, Brussels

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Thank you!